

Bogdan Chuzhinov

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RESEARCH INTERESTS

Dynamical Systems in Biology, Computational Biology, Knot Theory

EDUCATION

University of Vienna , Austria Master's Program Mathematics (Specialization Biomathematics)	March 2025 — Present
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University of Vienna , Austria Master's Program Bioinformatics	October 2024 — Present
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Yandex School of Data Analysis , Moscow, Russia Data Science Program	September 2021 — (expected) May 2025
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Novosibirsk State University , Novosibirsk, Russia Master of Science in Mathematics (Specialization Geometry and Topology) Thesis Title: Local Representations of Flat Virtual Braids by Automorphisms of Free Group (on Russian)	September 2021 — July 2023 Cumulative GPA: 5.00/5.00
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Novosibirsk State University , Novosibirsk, Russia Bachelor of Science in Mathematics	September 2018 — July 2021 Cumulative GPA: 4.95/5.00
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ACADEMIC EXPERIENCE

Special Educational Scientific Center of Novosibirsk State University <i>Lecturer at the Department of Mathematics</i>	Novosibirsk, Russia September 2022 — July 2023
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The lectures were devoted to preparing graduates of a special school at the university for additional entrance exams in mathematics at Moscow State University.

Laboratory of Topology and Dynamics , Novosibirsk State University <i>Laboratory assistant</i>	Novosibirsk, Russia August 2019 — December 2021
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PUBLICATIONS

Journal papers

Published

- Bardakov, V., Chuzhinov, B., Emelyanenko, I., Ivanov, M., Kozlovskaya, T., & Leshkov, V. (2024). Set-Theoretical Solutions of the n -Simplex Equation. *Siberian Advances in Mathematics*, 34(1), 1-40.
- Chuzhinov, B., & Vesnin, A. (2023). Representations of Flat Virtual Braids by Automorphisms of Free Group. *Symmetry*, 15(8), 1538. <https://doi.org/10.3390/sym15081538>

SELECTED COURSES

Relevant Master's Courses

- Stochastic Processes (3 ECTS)
- Weak Solutions of Mathematical Physics Equations (3 ECTS)
- Geometric Analysis (3 ECTS)
- Quasiconformal Analysis (4 ECTS)
- Nonstandard Analysis (4 ECTS)
- Structures on Manifolds (4 ECTS)

Additional Courses

- Probability Theory (5 ECTS)
- Mathematical Statistics (4 ECTS)
- Riemannian Geometry (4 ECTS)
- Complex Analysis (6 ECTS)
- Functional Analysis (8 ECTS)

Relevant Bachelor's Courses

- Introduction in Nonlinear Dynamics (2 ECTS)
- Gas dynamics (3 ECTS)
- Hydrodynamics (3 ECTS)
- Ordinary Differential Equations (6 ECTS)
- Integrable System (4 ECTS)
- Theoretical Mechanics (7 ECTS)
- Equations of Mathematical Physics (8 ECTS)
- Analysis (28 ECTS)

Courses of Yandex School of Data Analysis

- Bayesian Methods in Machine Learning
- Algorithms and Data Structures
- Machine Learning (including CV and NLP)
- Programming in Python
- Programming in Golang

LANGUAGES

Russian: Native

English: B2

German: C1

SKILLS

- **Programming:** Python (including NumPy, Pandas, Scikit-learn, Matplotlib, SciPy, PyTorch), C/C++ (basic).
- **Databases:** PostgreSQL, MongoDB.
- **Scientific Computations:** MATLAB, R.
- **Software:** Linux (including Bash-Scripting, Vim), Git, Latex, Docker.
- **Web Technologies:** Hugo, Astro.
- **Soft Skills:** Organization, Multitasking, Patience.

REFERENCES

Dr. Andrei Vesnin, Corresponding Member of the Russian Academy of Sciences

Chief Researcher at Sobolev Institute of Mathematics, Professor at Novosibirsk State University, Novosibirsk, Russia

E-mail: vesnin@math.nsc.ru

Scholar Profiles: Google Scholar

Dr. Valeriy Bardakov

Chief Researcher at Sobolev Institute of Mathematics, Professor at Novosibirsk State University, Novosibirsk, Russia

E-mail: bardakov@math.nsc.ru

Scholar Profiles: Research Gate